

What is Claimed Is:

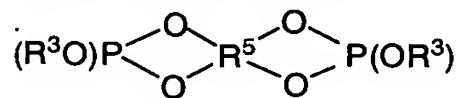
1. A one-part organopolysiloxane gel composition comprising:
  - (A) 100 parts by weight of an organopolysiloxane comprising from 80.0 to 97.0 mol% of  $R(CH_3)SiO$  units, from 1.0 to 10.0 mol% of  $RSiO_{1.5}$  units, from 0.1 to 4.0 mol% of  $(CH_3)_2(CH_2=CH)SiO_{0.5}$  units, and from 0.5 to 10 mol% of  $(CH_3)_3SiO_{0.5}$  units [wherein, a total of said units is 100 mol%, and in each unit formula representing said units, R represents a methyl group, a phenyl group, or a group represented by a formula  $R_fCH_2CH_2-$  (wherein  $R_f$  is a perfluoroalkyl group that contains or does not contain an ether linkage-forming oxygen atom within a chain)], in which a plurality of said R groups within a single molecule are either identical or different;
  - (B) an organohydrogenpolysiloxane having at least two units represented by a formula  $H(R^1)_2SiO_{0.5}$  within each molecule [wherein, each  $R^1$  represents, independently, an unsubstituted or substituted monovalent hydrocarbon group other than an alkenyl group], in sufficient quantity that a number of hydrogen atoms bonded to silicon atoms within this component is within a range from 0.5 to 4.0 atoms for each vinyl group within said organopolysiloxane of said component (A);
  - (C) an effective quantity of a platinum based catalyst;
  - (D) a phosphite triester in sufficient quantity to provide at least 2 equivalents relative to platinum metal atoms within said component (C); and
  - (E) an organic peroxide in sufficient quantity to provide at least 2 equivalents relative to said component (D).

2. The composition according to claim 1, wherein said phosphite triester is a compound represented by a general formula:



[wherein, each  $R^2$  represents, independently, at least one group selected from the group consisting of unsubstituted and substituted monovalent hydrocarbon groups, and groups of a formula  $-R^4-[-O-P(OR^3)_2]_x$  (wherein  $R^3$  are each independently an unsubstituted or substituted monovalent hydrocarbon group, x is an integer of 1 to 3, and  $R^4$  is a bivalent, trivalent or tetravalent hydrocarbon group of 2 to 20 carbon atoms that contains or does

not contain an ether linkage-forming oxygen atom within the chain)], or a compound represented by a general formula:



[wherein  $R^3$  are as defined above, and  $R^5$  is a tetravalent hydrocarbon group of 1 to 20 carbon atoms that contains or does not contain an ether linkage-forming oxygen atom within the chain)].

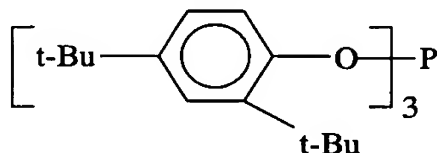
3. The composition according to claim 1, wherein a quantity of said  $RSiO_{1.5}$  units within said component (A) is from 1.5 to 10.0 mol%.

4. The composition according to claim 1, wherein a viscosity at 25°C of said component (A) is within a range from 300 to 10,000 mPa·s.

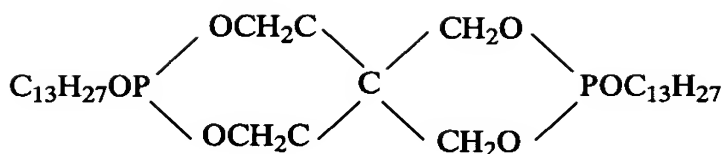
5. The composition according to claim 1, wherein a viscosity at 25°C of said component (B) is within a range from 0.5 to 500 mPa·s.

6. The composition according to claim 1, wherein said component (B) is a dimethylpolysiloxane with both molecular chain terminals terminated with dimethylhydrogensiloxy groups.

7. The composition according to claim 1, wherein said component (D) is triethyl phosphite:  $(EtO)_3P$ , tris(2-ethylhexyl) phosphite:  $[MeC_3H_6CH(Et)CH_2O]_3P$ , trioctyl phosphite:  $[Me(CH_2)_7O]_3P$ , triphenyl phosphite:  $(PhO)_3P$ , diphenylmono(2-ethylhexyl) phosphite:  $(PhO)_2(MeC_3H_6CH(Et)CH_2O)P$ , tris(2,4-di-tert-butylphenyl) phosphite:



tetraphenyldipropylene glycol diphosphite:  $(PhO)_2PO-[CH(Me)-CH_2O]_2-P(OPh)_2$ ,  
tetraphenyltetra(tridecyl)pentaerythritol tetraphosphite:  $[(PhO)(C_{13}H_{27}O)P-OCH_2]_4C$ ,  
tetra(tridecyl)-4,4'-isopropylidenediphenyl diphosphite:  $(C_{13}H_{27}O)_2PO-Ph-C(Me)_2-Ph-OP(OC_{13}H_{27})_2$ , bis(tridecyl)pentaerythritol diphosphite:



(wherein in each of the above formulas, Me, Et, Bu, and Ph represent a methyl group, an ethyl group, a butyl group, and a phenyl group or phenylene group, respectively), or a mixture of two or more thereof.

8. The composition according to claim 1, wherein said component (E) is a ketone peroxide, a peroxy ketal, a hydroperoxide, a dialkyl peroxide, a diacyl peroxide, a peroxycarbonate, a peroxy ester, or a combination of two or more thereof.

9. The composition according to claim 1, wherein said component (E) is methyl ethyl ketone peroxide, cyclohexanone peroxide, methyl acetoacetate peroxide, acetylacetone peroxide, 1,1-bis(t-butylperoxy)-3,3,5-trimethylcyclohexane, 2,2-bis(t-butylperoxy)butane, 1,1,3,3-tetramethylbutyl hydroperoxide, cumene hydroperoxide, t-butyl hydroperoxide, 2,5-dimethyl-2,5-bis(t-butylperoxy)hexane, di-t-butyl peroxide, 3,5,5-trimethylhexanoyl peroxide, m-toluoyl peroxide, di-isopropyl peroxydicarbonate, di-2-ethylhexyl peroxydicarbonate, t-butylperoxy 3,5,5-trimethylhexanoate, t-butylperoxy isopropylmonocarbonate, t-butylperoxy 2-ethylhexylmonocarbonate, t-butylperoxy benzoate, or a combination of two or more thereof.

10. The composition according to claim 1, further comprising a dimethylpolysiloxane in which one molecular chain terminal is terminated with a trimethylsiloxy group, and another terminal is terminated with a dimethylhydrogensiloxy group.

11. The composition according to claim 1, further comprising a copolymer of dimethylsiloxane and diphenylsiloxane with both molecular chain terminals terminated with trimethylsiloxy groups.

12. The composition according to claim 1, further comprising a hydrophobic silica that has been surface treated using hexamethyldisilazane and comprises trimethylsilyl groups at said surface.